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— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: CELL DEATH-INDUCING FUSED GENE ACTING SPECIFICALLY ON CANCER AND GENE PRODUCT THEREOF

(54) 発明の名称: 癌に特異的に作用する細胞死誘導融合遺伝子及びその遺伝子産物

(57) Abstract: It is intended to provide a protein having a potent effect of inducing cell death (i.e., a fused protein having a denatured Bax protein carrying GEP fused to the N-terminal and a homing signal peptide having a homing effect on cancer cells further fused in the N-terminal side); a gene encoding the fused protein; and a cancer cell proliferation inhibitor containing the fused protein. Namely, a fused gene containing a cell death-inducing gene specifically acting on cancer cells, which is a fused gene having a gene encoding a cancer cell-specific homing signal peptide sequence, a gene encoding a green fluorescent protein (GFP) and a gene encoding  $\Delta$ -NBax with a deletion of the N-terminal sequence containing BH3 region of human Bax in this order, and a fused protein encoded by the fused gene.

(57) 要約: 本発明は、強力な細胞死誘導作用を有するタンパク質、すなわちGFPをN末端に融合した改変型Baxタンパク質のN末端側にさらに癌細胞へのホーミング作用を有するホーミングシグナルペプチドを融合させた融合タンパク質、該融合タンパク質をコードする遺伝子、および該融合タンパク質を含む癌細胞増殖抑制剤を提供する。本発明は、癌細胞に特異的に作用する細胞死誘導遺伝子を含む融合遺伝子であって、癌細胞に特異的なホーミングシグナルペプチド配列をコードする遺伝子、グリーン蛍光タンパク質 (GFP) をコードする遺伝子およびヒトBaxのBH3領域を含むN末端配列を除去した $\Delta$ NBaxをコードする遺伝子をこの順番で融合させた融合遺伝子および該融合遺伝子がコードする融合タンパク質である。

ATTACHMENT E

WO 2004/085653 A1

## PATENT COOPERATION TREATY

PCT

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Japan

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Applicant NIPPON MEDICAL SCHOOL FOUNDATION et al		

- By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
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